MOORE INDUSTRIES

TEMPTATION 2000

T2X RTD Temperature Transmitter

November 2013 *Temperature Transmitters You Can't Resist*

The TEMPTATION 2000 RTD Temperature Transmitter (Model T2X) delivers long-term stability in a wide range of basic temperature sensing applications.

The PC programmable, microprocessor-based T2X accepts 2-, 3-, and 4-wire RTD inputs. It provides a proportional 4-20mA output that is linear with temperature, and ready for direct interface with a monitoring/ control system.

Setting up the T2X

Configuring and programming the T2X is simple. Begin by gathering all the necessary equipment (as listed in Table 1), installing the T2X PC Configuration Program onto your computer, then connecting the T2X as shown in Figure 1. It is necessary to connect the T2X to the PC before creating a configuration file.

Connecting the T2X for Configuration

Figure 1. *Connecting the T2X to the PC for Configuration.*

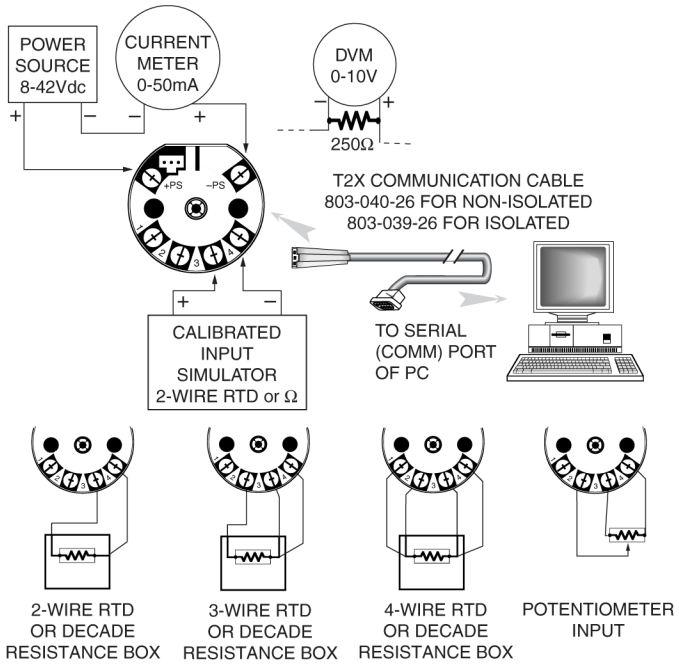

Table 1. *Equipment Needed for Setting Up the T2X*

Device	Specifications
Potentiometer, Simulator, or Decade Resistance Box	Accurate to ±0.05% of unit span
Power Supply	8-42Vdc, ±10%
Precision Load Resistor (optional)	250Ω, ±0.01%
Multimeter	Accurate to ±0.025%, e.g. Fluke Model 87
RTD Temperature vs. Resistance Tables	ITS68 and ITS90, or equivalent
Personal Computer	See "Installing Software"
Moore Industries' T2X Configuration Program	Successfully installed on the hard disk of the specified PC
Moore Industries' Communication Cable	Isolating (PN 803-039-26)

Installing the Software

Before the transmitter can be configured, the T2X PC Configuration Program must be installed on a PC with the following:

- 80386-based PC (or faster), or 100% compatible
- CD Drive
- At least 2Mb of free Random Access Memory (RAM)
- 1Mb of free space on the PC hard disk drive
- Microsoft Windows® 95, 98, NT 4.0, 2000 or XP

Note:

More RAM and a faster processor may be required for Windows® 95, 98, NT 4.0, 2000 and XP. Consult the Windows manual for details

- One (1) available serial communications port (COM 1, 2, or 3), set to 4800 baud, no parity, 8 data bits, and 1 stop bit

Configuring the T2X

The T2X is configured using an easy-to-use PC Configuration Program; there are no internal or external controls to adjust or settings to change. All operating parameters are set using the PC program, then downloaded to the nonvolatile memory of the T2X in the form of a configuration file.

Page 2 of the manual contains all of the instructions for configuring the T2X. Use Figure 2 to find the portion of the screen that you have a question about. The number by that area will correspond with the instructions.

Note:

The new settings will not take effect until you have programmed the T2X with the new configuration file. To program the transmitter, (with the T2X attached) click "Stop", then "Prog".

Managing Configuration Files

Once all the parameters for a transmitter are set, they can be saved to disk using the "File" menus and fields.

Saving a Configuration File to Disk – To save a configuration file to disk, click on the "File" button. This brings up an explorer-like window on the left side of the screen. Enter the name of the file you wish to save in the "Selected File Name" box. Select the location for the file to be saved and click "Save". Answer "Yes" to the dialogue box that pops up to finish saving the file.

Retrieving a Configuration File from Disk – To retrieve a file, click on the "File" button. Use the display on the left to locate and click on the file to be retrieved. Click on the "Quit File" button. Answer "Yes" to the dialogue box that pops up to finish retrieving the file. The file can now be downloaded to a T2X.

Retrieving a Configuration File from a Connected T2X – To retrieve the configuration file from a connected T2X, simply click "Stop", then "Get Setup". The screen will reflect any changes. This file can now be saved or downloaded to a different T2X.

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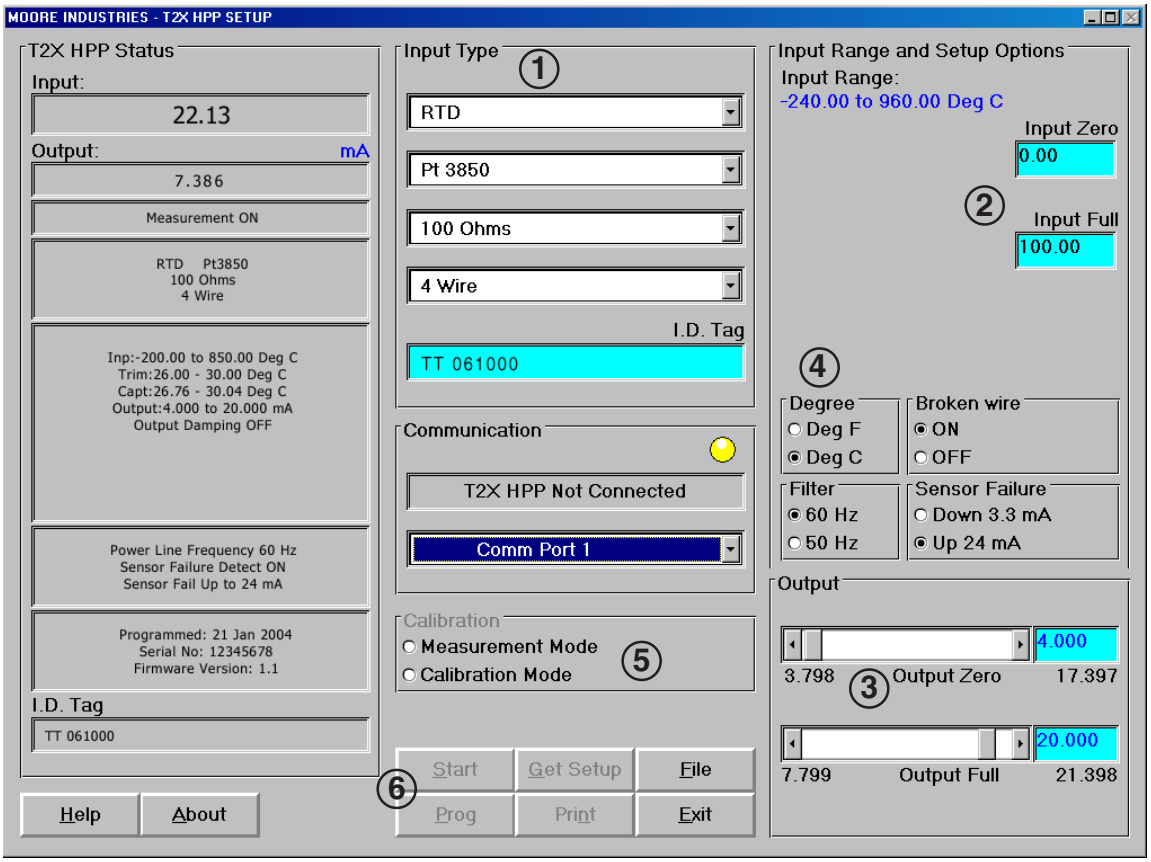
Figure 2. *The Temptation 2000 PC Configuration Program provides an easy way to configure your T2X.*



1. Selecting Input Type, Wiring, etc.
Use the selection tools in the "Input Type" box to choose the sensor type that the T2X will be reading. Select the appropriate "Input Type" values. Continue to change the remaining areas in "Input Type", such as ohms and # wires, until the entire "Input Type" area matches the desired parameters for your transmitter.

2. Scaling the Input & Setting the Reverse Output
Scaling the input allows you to set the T2X to scale its output in response to a portion of the total range of the selected input type. In a reverse output application, the T2X output drops in proportion to a rise on input, and rises in proportion to a drop in the input.

To scale the input: To set the scaling, select the "Input Zero" box and enter the value for the desired Input Zero from the application where the T2X is to be employed. Select the "Input Full" box and enter the value for the desired Input Full.

To set reverse output: Follow the instructions to scale the input, but enter a value in the "Input Zero" box that is greater than the Input Full, and a value in the "Input Full" box that is less than the Input Zero.

3. Scaling the Output
The T2X can be configured to scale its 4-20mA output to offset the performance or calibration of other instruments in the process loop. To scale the output, enter the desired Output Zero value in the "Zero Scale Output" box, or use the slide bar to adjust the value. Select the "Full Scale Output" box and enter the desired Output Full value.

4. Setting Miscellaneous Functions
There are several radio buttons on the T2X Configuration Program Main Screen that control additional transmitter functions.

Setting Engineering Unit Readout: Use this setting to have the Configuration Program calculate the Centigrade or Fahrenheit temperature for readout in the "Status" area of the screen.

Setting Input Filtering: Use this radio button setting to filter out noise from the power to the transmitter.

Choosing Between Upscale and Downscale Drive: This button configures the transmitter to drive its output either up to 24mA or down to 3.3mA when a sensor or sensor wiring failure is detected.

5. Enabling/Disabling Broken Wire Detection
During operation, the T2X sends random micro-amp pulses through input wiring to check for broken wiring or a burned-out sensor. This can cause problems with temperature calibrators. To turn this feature off, set the "Calibration" radio button to "Calibration Mode".

6. Downloading your new T2X Settings
To start the download process, click on the “Stop/Start” button at the bottom of the screen, then on the “Prog” button. This transfers the settings from the software to the memory of the connected transmitter.

Specifications

Performance

Input Accuracy:
Platinum RTD, ±0.2°C (±0.36°F)
Nickel RTD, ±0.16°C (±0.29°F)
Copper RTD, ±1.2°C (±2.16°F)
Ohms, ±0.4Ω

Output Accuracy:
±0.05% of output span

NOTE: Overall accuracy is determined by combining input and output accuracy. It includes the combined effects of linearity, hysteresis, repeatability, and adjustment resolution. It does not include ambient temperature effect.

Stability (max. span):
1 year = ±0.12%
3 years = ±0.21%
5 years = ±0.27%

Measurement Cycle:
Output updates at least 5 times per second

Output Response Time:
256msec typical, 360msec maximum, for the output to change from 10% to 90% for an input step change of 0% to 100%

Performance (continued)

Ripple: 10mV peak-to-peak measured across a 250 ohm load resistor at frequencies up to 120Hz

Over-Voltage Protection:
Input, 4Vdc peak, max.; Output, 48Vdc, max.

Digital Input Filter:
User-selectable, 50/60Hz

Power Supply and Load Effects: Negligible within specified power limits

Load Capability:
670 ohms @ 24V

$$\Omega = \frac{\text{(Supply Voltage - 8V)}}{0.024\text{A}}$$

Burnout Protection:
User-programmable, Upscale to 24mA; Downscale to 3.3mA

Output Current Limiting:
25mA maximum

RTD Lead Wire Resistance Maximum:
RTD resistance + 2 times the lead wire resistance must be less than 2000 ohms; Recommended <35 ohms per wire for three wire inputs; <5 ohms per wire for 10 ohm Cu inputs

RTD & Ohms Excitation:
250µA, ±10%

Ambient Conditions

Operating & Storage Range:
-40°C to +85°C (-40°F to +185°F)

Relative Humidity:
0-95%, non-condensing

Ambient Temperature Effect:
±0.03% of output span/°C

RFI/EMI Immunity:
CE compliant when tested according to IEC 61326

Noise Rejection:
Common mode: 100dB @ 50/60Hz; Normal Mode: 70dB typical at 200mV peak-to-peak @ 50/60Hz

Set Up

All settings are made using Moore Industries' Intelligent PC Configuration Software, and then stored in nonvolatile memory

Weight

HPP: 101 g (3.6 oz)
HPP in LH1: 428 g (15.1 oz)
HPP in LH2: 654 g (1 lb. 7 oz)
HPP in CH6: 173 g (6.1 oz)

Input Types and Ranges

Input	Type	α	Ω	Conformance Range	Maximum Range*	Minimum Span
RTD 2-Wire 3-Wire 4-Wire	Platinum	0.003850	100, 200, 300, 400, 500	-200 to 850°C -328 to 1562°F	-240 to 960°C -400 to 1760°F	10°C 18°F
			1000	-200 to 300°C -328 to 572°F	-240 to 300°C -400 to 572°F	
		0.003902	100, 200, 400, 500	-100 to 650°C -148 to 1202°F	-150 to 720°C -238 to 1328°F	
			1000	-100 to 300°C -148 to 572°F	-150 to 300°C -238 to 572°F	
		0.003916	100	-200 to 510°C -328 to 950°F	-240 to 580°C -400 to 1076°F	
	Nickel	0.00672	120	-80 to 320°C -112 to 608°F	-100 to 360°C -148 to 680°F	10°C 18°F
	Copper	0.00427	9.035	-50 to 250°C -58 to 482°F	-203.19 to 300.53°C -333.74 to 572.95°F	100°C 180°F
Ω	Resistance Potentiometer	N/A	0-2200Ω	0-2200Ω	0-2200Ω	30Ω

*Transmitter will measure ranges outside of the Conformance Range with some degradation to accuracy ratings. Consult the factory for details.

Configuration Software and Cable

Each T2X order comes with one copy of our Configuration Software (Windows 95, 98, NT, 2000 and XP compatible). To order additional copies:

Software:
PART NUMBER: 750-75E05-01

PC-to-Transmitter Configuration Cable:
PART NUMBER: 803-040-26

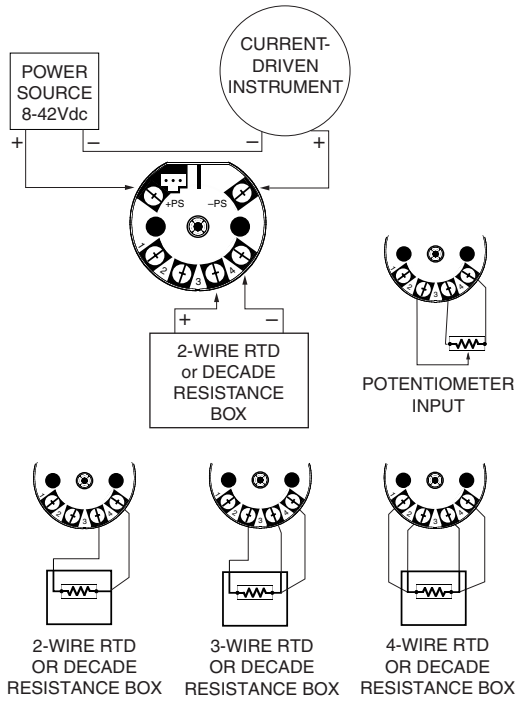
TEMPTATION 2000

T2X RTD Temperature Transmitter

Installing and Connecting the T2X

Now that the T2X has been programmed to your satisfaction, it is ready for installation. The T2X is available in an HPP housing style, but may be enclosed in any one of several types of certified or uncertified connection heads. Consult your local Moore Industries' Interface Solutions Expert for information on the type of enclosure that best suits your application.

Figure 3. *Connecting your T2X to the loop.*



Connecting the T2X in an Application

Moore Industries suggests installing the T2X by first mounting the unit in its intended application, then making the electrical connections to input, output, and power. Before any installation, make sure that the unit has been bench checked to ensure that it is configured and calibrated properly for its intended application.

Ground Wiring Recommendations

The following ground wiring practices must be followed to ensure proper performance of the T2X in any application.

- Any Moore Industries product in a metal case or housing must be grounded.
- All input signals to, and output signals from, Moore Industries' products should be connected using a shielded, twisted pair technique. Shields should be connected to an earth or safety ground at the unit itself.
- The maximum allowable length of any unshielded portion of the input and/or output connections is 2 inches (51mm).

CE Conformity

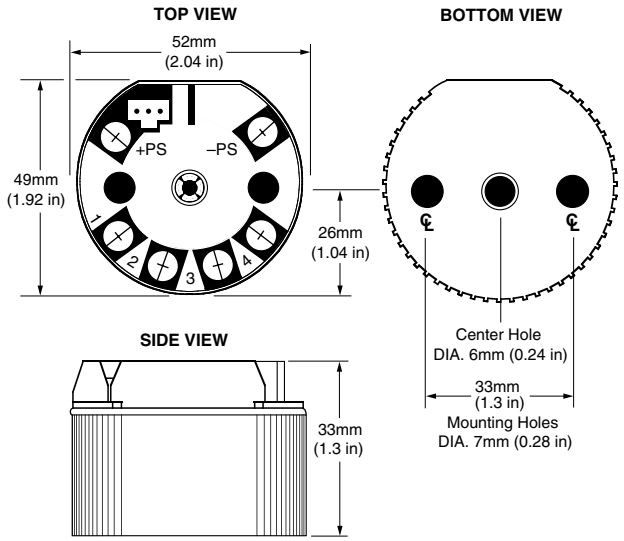
Installation of any Moore Industries products that carry the CE certification (Commission Electrotechnique) ***must*** adhere to guidelines set forth in the applicable EMC (Electromagnetic Compatibility) directives EN55011, EN50082-1, and EN50082-2, etc.

Maintaining the T2X

Moore Industries suggests a quick check for terminal tightness and general unit condition every 6-8 months, depending upon the severity of conditions. Things such as ambient vibration, corrosive atmospheres, extreme heat or cold, etc., can play a role in shortening the service life of any piece of electronic equipment. Always adhere to any site requirements for programmed maintenance.

Dimensions

Figure 4. *Dimensions for the T2X.*



WARRANTY DISCLAIMER

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ANY BUYER OF GOODS OR SERVICES FROM THE COMPANY AGREES WITH THE COMPANY THAT THE SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF ANY WARRANTY CONCERNING THE GOODS OR SERVICES SHALL BE FOR THE COMPANY, AT ITS OPTION, TO REPAIR OR REPLACE THE GOODS OR SERVICES OR REFUND THE PURCHASE PRICE. THE COMPANY SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES EVEN IF THE COMPANY FAILS IN ANY ATTEMPT TO REMEDY DEFECTS IN THE GOODS OR SERVICES , BUT IN SUCH CASE THE BUYER SHALL BE ENTITLED TO NO MORE THAN A REFUND OF ALL MONIES PAID TO THE COMPANY BY THE BUYER FOR PURCHASE OF THE GOODS OR SERVICES.

ANY CAUSE OF ACTION FOR BREACH OF ANY WARRANTY BY THE COMPANY SHALL BE BARRED UNLESS THE COMPANY RECEIVES FROM THE BUYER A WRITTEN NOTICE OF THE ALLEGED DEFECT OR BREACH WITHIN TEN DAYS FROM THE EARLIEST DATE ON WHICH THE BUYER COULD REASONABLY HAVE DISCOVERED THE ALLEGED DEFECT OR BREACH, AND NO ACTION FOR THE BREACH OF ANY WARRANTY SHALL BE COMMENCED BY THE BUYER ANY LATER THAN TWELVE MONTHS FROM THE EARLIEST DATE ON WHICH THE BUYER COULD REASONABLY HAVE DISCOVERED THE ALLEGED DEFECT OR BREACH.

RETURN POLICY

For a period of thirty-six (36) months from the date of shipment, and under normal conditions of use and service, Moore Industries ("The Company") will at its option replace, repair or refund the purchase price for any of its manufactured products found, upon return to the Company (transportation charges prepaid and otherwise in accordance with the return procedures established by The Company), to be defective in material or workmanship. This policy extends to the original Buyer only and not to Buyer's customers or the users of Buyer's products, unless Buyer is an engineering contractor in which case the policy shall extend to Buyer's immediate customer only. This policy shall not apply if the product has been subject to alteration, misuse, accident, neglect or improper application, installation, or operation. THE COMPANY SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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MOORE INDUSTRIES

United States • info@miinet.com
Tel: (818) 894-7111 • FAX: (818) 891-2816

Belgium • info@mooreind.be
Tel: 03/448.10.18 • FAX: 03/440.17.97

China • sales@mooreind.sh.cn
Tel: 86-21-62491499 • FAX: 86-21-62490635

Australia • sales@mooreind.com.au
Tel: (02) 8536-7200 • FAX: (02) 9525-7296

The Netherlands • sales@mooreind.nl
Tel: (0)344-617971 • FAX: (0)344-615920

United Kingdom • sales@mooreind.com
Tel: 01293 514488 • FAX: 01293 536852

235-781-00 B1

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EC Declaration of Conformity

Moore Industries-International, Inc.
16650 Schoenborn Street
North Hills, CA 91343-6196 U.S.A.

Date Issued: 21 Oct. 2013
No. 100-100-245 Rev. A

Equipment Description:

RTD Temperature Transmitter
Model T2X / * / * / * / * / *
* Indicates any input, output, power, options and housing as stated in the product data sheet.

Directive:

2004/108/EC (EMC: Electromagnetic Compatibility)

Specifications Conformed To:

EN 61326-1:2006 Electrical equipment for measurement, control and laboratory use - EMC requirements

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Equipment Description:

RTD Temperature Transmitter
Model T2X / * / 4-20mA / 8-42DC / * / HPP
* Indicates any input and option as stated in the product data sheet.

Directive:

94/9/EC (ATEX: Equipment and protective systems for potentially explosive atmospheres)

Provisions of the Directive Fulfilled by the Equipment:

Group II Category 3 G Ex nA IIB T6

Technical File No.: **T2X-TF001**

Conformity Assessment Procedure:

Internal Control of Production - Annex VIII (Module A)

Technical Standards Referenced:

EN 60079-0:2006 Explosive atmospheres Part 0: Equipment - General requirements
EN 60079-15:2005 Explosive atmospheres Part 15: Equipment protection by type of protection "n"

EC Declaration of Conformity

Moore Industries-International, Inc.
16650 Schoenborn Street
North Hills, CA 91343-6196 U.S.A.

Equipment Description:

RTD Temperature Transmitter in the LH2 Enclosure
Model T2X / * / * / * / * / LH2E**
* Indicates any input, output, power and options as stated in the product data sheet.
**Indicates any LH2 Enclosure with the 'E' suffix.

Directive:

94/9/EC (ATEX: Equipment and protective systems for potentially explosive atmosphere)

Provisions of the Directive Fulfilled by the Equipment:

Group II Category 2G Ex d IIC T6; Group II Category 2D Ex tD A21 IP66 T85˚C

Notified Body for EC-Type Examination:

ISSeP [Notified Body Number 0492]
Zoning A. Schweitzer 7340
Colfontaine, Belguim

EC-Type Examination Certificate:

ISSeP 08 ATEX 033 X

Technical Standards Referenced:

EN 60079-0:2006 Explosive atmospheres Part 0: Equipment - General requirements
EN 60079-1:2007 Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"
EN 61241-0:2006 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
EN 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

Notified Body for Quality Assurance:

SIRA [Notified Body Number 0518]
Rake Lane, Eccleston,
Chester, Cheshire,
CH4 9JN, England

On Behalf of Moore Industries-International, Inc., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

Signature:

Deanna Esterwold, Quality Manager

MOORE INDUSTRIES

User's Manual Supplement

Physical Instructions for Installing an Encapsulated Hockey-Puck (HPP) Instrument and LH2 Field-Mount Enclosure Apparatus

January 2001

The Physical Instructions Supplement provides references and additional information for safely installing and commissioning a Moore Industries' Hockey-Puck instrument and LH2 Field-Mount Enclosure Apparatus.

Instrument Labeling and Identification—The fully assembled apparatus consists of a Moore Industries' Hockey-Puck unit securely mounted in an LH2 enclosure. Such an apparatus is intended for use in both indoor and outdoor Hazardous (Classified) Locations where a degree of protection from windblown dust and rain, splashing and hose-directed water, and protection from the formation of ice on the enclosure is required. A series of selected Moore Industries' 2-Wire hockey-puck style units mounted in the LH2 enclosure (consult factory for a list of the certified instruments) are certified as an Explosion-Proof and Dust Ignition-Proof appartus in accordance with Factory Mutual Research '3600' standard (NEC-based) and as Flame-Proof in accordance with the CENELEC/ATEX Directive 94/9/EC (IEC-based). For applications intended in North America and other related areas, the approval classifications are stated on the externally mounted metal ID Tag to be FM approved as Explosion-Proof for Class I, Division 1, Groups A, B, C and D; Dust Ignition-Proof for Class II/III, Division 1, Groups E, F and G; T6 @ 60°C Maximum Operating Ambient Temperature. In regards to protection from Environmental hazards/effects, the apparatus carries a NEMA Type 4X rating with an Ingress Protection Code of IP66 as per IEC-529. For applications intended in Europe and other related areas, the ID Tag clearly states that the apparatus is certified by ISSeP to be Flame-Proof and marked as such: ⟨Ex⟩ II 2GD EEx d IIC; T6 @ Tamb. (-20°C ≤Tamb. ≤+60°C). The temperature marking for dust atmospheres is up to + 80°C. The maximum power parameters are: Vmax = 42 VDC, Imax = 110 mA and Pmax = 2W. Also, the tag clearly shows the CE marking denoting full compliance with the relevant European Community directives applicable to the Process Instrumentation Industry. For 2-wire transmitters certified and intended to be operated as either Intrinsically Safe, Non-Incendive (Class I, Div. 2) or Type N; the power parameters are clearly stated on both the Instrument ID Label and the Apparatus ID Tag. Also, the power parameters and cabling requirements are stated in the 'Intrinsically Safe Barrier and Field Installation Diagram' that is included in the relevant User's Manuals. This apparatus is designed in such a way that it: a) does not give rise to physical injury or other harm due to contact, b) does not produce excessive surface temperature, infra-red, electromagnetic, ionizing radiation and, c) have no non-electrical dangers.

CAUTION

Read, understand and adhere to the manufacturer's installation and operating procedures. Substitution of components may impair the instrument's Intrinsic Safety and/or Non-Incendivity. Keep cover tightly closed. Do not open unit when energized. Do not open unit when either an explosive gas or dust atmosphere is present. Cable entry temperature may exceed 70°C. Cabling to be suitable. Do not allow layers of dust to accumulate on the surfaces of the equipment. Disconnect power before servicing.

Contact Information—If you have installation, maintenance, periodic service, warranty questions or emergency repair requirements, please contact the nearest Moore Industries sales and service office. Contact information can be found on the back of this Supplement, in the User's Manual for the instrument, or at Moore Industries' web site: www.miinet.com

User's Manual—Complete information for an individual instrument model can be found in the Moore Industries User's Manual for that instrument. The manual provides information for putting the instrument safely into service. This, where applicable, includes instructions, drawings and diagrams. The Manual also includes appropriate Warnings, Cautionary Statements, and Notes.

User's Manual components, where applicable, include:
Introduction—Brief description of the instrument and its general application and use.
Specifications—Provides electrical and environmental conditions under which the instrument is designed to safely perform.
Ordering Information—Provides a description of the product model number to assist in verifying that the instrument received matches the instrument ordered for the installation.
Calibration and Configuration—Describes how to accomplish instrument settings and adjustment required to set up the unit
Installation and Connection—Describes how to install the instrument and make electrical connections (including terminal designations). See the back of this Supplement for additional information on how to install the hockey-puck instrument into the LH2 enclosure.
Maintenance—Describes recommended maintenance (if any required) for the instrument. The user should consult their own maintenance procedures for any site-specific maintenance procedures (such as scheduled re-calibrations) or other maintenance schedules that may apply to instruments such as those supplied by Moore Industries.
Troubleshooting—Describes, where applicable, procedures for correcting any operational difficulties that may be encountered as a result of improper configuration/calibration or installation of the instrument.
Customer Support—Describes the procedure and information required to efficiently receive answers to questions regarding instrument installation, set up, or operation.

User's Manual Supplement

Physical Instructions for Installing an Encapsulated Hockey-Puck (HPP) Instrument and LH2 Field-Mount Enclosure Apparatus

Suitability for the Installation—To determine if a unit's area classification approvals are appropriate for a particular installation, first inspect the classification labeling on the instrument and/or instrument enclosure and the "Control Drawing for Installation" found in the User's Manual (where applicable). Second, consult the installation criteria for the approval or electrical standard agencies governing your location to determine if the unit's approvals are suitable for the installation. If the instrument's labeling matches the agency criteria and/or electrical codes for the area, the unit is suitable for the installation. To determine if the unit's electrical and environmental specifications are appropriate for the installation, consult the "Specifications" table in the User's Manual for that instrument. If the instrument's electrical and environmental characteristics are within the expected ambient operating conditions for the installation, the instrument is suitable for the installation.

CAUTION

If for any reason you are uncertain as to whether the instrument's specifications or area classifications meet the operational or safety requirements for the installation, consult Moore Industries prior to installation.

Installation of LH Enclosure Apparatus

1. Install the LH2 enclosure onto a surface, temperature thermowell, or onto a standard 2-inch pipe using the mounting hardware. Remove the cap from the LH2 by rotating the cap counter clockwise after unlocking by rotating the locking screw clockwise.
2. Connect input and output wiring in accordance with the connection information found in the User's Manual for that instrument.
3. Replace the cap to the LH2 by rotating the cap clockwise. Secure (lock) the cap by rotating the locking screw counterclockwise.
4. Connect a ground wire between the ground screw on the LH2 enclosure to an appropriate earth ground.

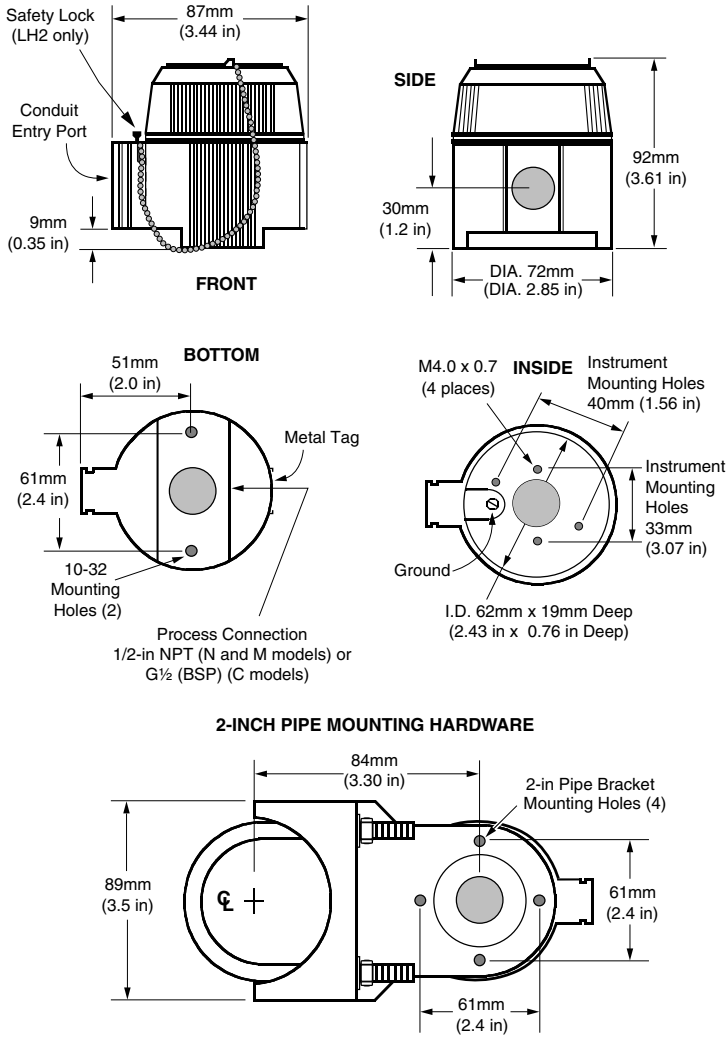
Ground Wire Recommendations

The following ground wiring practices must be followed to ensure proper performance of the Moore Industries instrument in any application.

- Any Moore Industries product in a metal case or housing must be grounded.
- All input signals to, and output signals from, Moore Industries' products should be connected using a shielded, twisted pair technique. Shields should be connected to an earth or safety ground at the unit itself.
- The maximum allowable length of any unshielded portion of the input and/or output connections is 2 inches (50.8mm).

See the User's Manual for the instrument for additional installation information.

Figure 1. *Installation dimensions for LH2 enclosure.*



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MOORE INDUSTRIES

United States • info@miinet.com
Tel: (818) 894-7111 • FAX: (818) 891-2816

Belgium • info@mooreind.be
Tel: 03/448.10.18 • FAX: 03/440.17.97

China • sales@mooreind.sh.cn
Tel: 86-21-62491499 • FAX: 86-21-62490635

Australia • sales@mooreind.com.au
Tel: (02) 8536-7200 • FAX: (02) 9525-7296

The Netherlands • sales@mooreind.nl
Tel: (0)344-617971 • FAX: (0)344-615920

United Kingdom • sales@mooreind.com
Tel: 01293 514488 • FAX: 01293 536852

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